

Grain

OCTOBER, 1949



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Grain

OCTOBER
1949

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Overseas \$3.00 Single Copy 25c



One of four Marine legs operating at Kerr, Gifford & Co. grain dock, Portland, Ore., to unload wheat from a typical Columbia River grain barge.

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Barge Shipments of Grain Increasing on Columbia River

A VERY important development in the Pacific Northwest is the rapidly growing employment of barges for transporting grain. This is partly due to improved handling, dock and storage facilities and partly to conversion of old barges and construction of new ones.

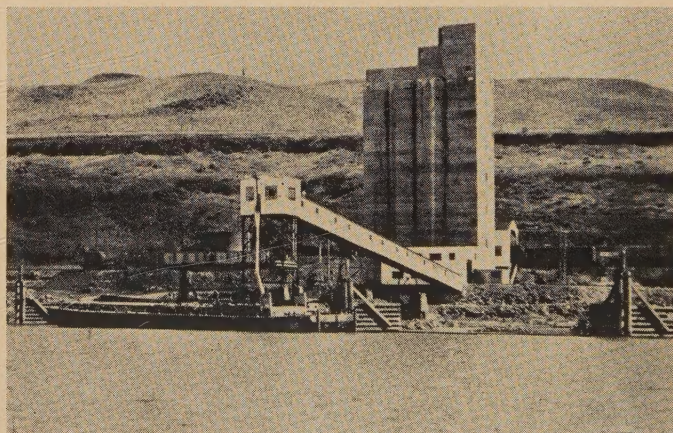
The marine leg shown above at the plant of Kerr, Gifford & Co., Portland, Ore., is both an old and new operation. The first leg of this type was built by the company some 10 years ago. However, since that

time it has been improved and the company recently completed their fourth one. The first was constructed in the company's shops, by American Sheet Metal Works from Kerr-Gifford designs.

The Nu-Hi buckets attached to the belt are approximately 8 in. apart, with rated capacity of 165 tons of wheat per hour.

There are indications that more and more wheat will be barged from Inland Empire points down the Columbia via barges. While in the past

This 300,000-bu. grain elevator recently built for Kerr, Gifford & Co., on Columbia River at Arlington, Ore., will give impetus to grain barging.



this was all sacked, from indications and satisfactorily handling in the future this will all be bulk wheat. Steadily since 1939 barges and equipment have been converted to bulk.

Barges vary in size from 300 to 600 tons, depending upon the height and stage of the Columbia River at time of loading. There are now some barges under construction which will hold in excess of 750 tons.

The barge shown here is one of a group of four barges converted by Inland Navigation Co. for grain carrying. It is 104 ft. long, 29 ft. wide and carries a wheat cargo of 600 tons. The marine leg is lowered into the grain by a boom and the

buckets take up grain to the elevator spout shown.

Points of shipment include Pt. Kelly, near Walla Walla, Arlington to Portland, some 200 miles via Columbia River.

Incidentally since the increase in barge wheat shipment via Columbia to Coast terminals rail rates have been substantially reduced.

The newer barges have been built by Tidewater-Shaver Barge Lines of Portland and Columbia Snake River Towing Co.

Operations of Kerr-Gifford include also the suction system of unloading barges at both Vancouver and Portland plants.

It is found that the suction operation is done more readily from the flat bottom barges, while the marine leg operation is more successful in the newer barges equipped with sumps and where the leg is lowered into the grain and into which the grain flows.

Handling of the marine leg is electrically controlled in one position and by one expert operator.

The company have completed their new modern elevator at Arlington, from where wheat is barged and also The Dalles. They use from this new elevator barge, truck and rail in transportation. It was completed in the Fall of last year and is an up-to-date 300,000-bu. house with every modern facility for handling and storage.

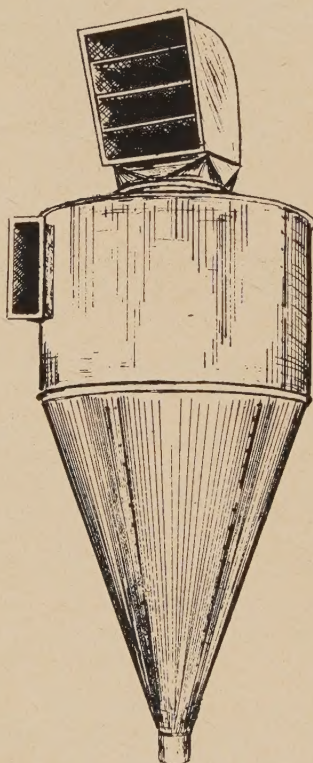
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PEAVEY'S DIAMOND JUBILEE

This month October will see the Diamond Anniversary of F. H. Peavey & Co. Organized in Sioux City, Iowa, 75 years ago, the company then had but two employees. Today, this parent firm and affiliates employ more than 1800.

When the company was 10 yrs. old, Frank Peavey, the founder, moved headquarters from Sioux City to Minneapolis, where it has since remained. In 1899, seeking a better method of storing and handling grain Frank T. Heffelfinger — present chairman of the Board — went on a tour of Europe. This took him to Russia and several other countries for a study of grain storage methods. Mr. Peavey then built an experimental concrete grain tank 120 ft. high on the western outskirts of Minneapolis.

Many so-called "experts" laughed at the idea and claimed the concrete structure would burst because concrete does not "give" like wood.

Undaunted, Mr. Peavey ordered the concrete tank built, then filled it with grain and rapidly emptied it. It withstood the test with flying colors — and, in fact, still stands today near the Belt Line which skirts western Minneapolis.

That experimental concrete tank became the model for the first big multiple-tank concrete terminal elevator in North America, erected by Peavey the following year at Duluth.

In addition to Frederick B. Wells, President, and Frank T. Heffelfinger, Chairman of the Board, the Peavey Company's leadership today is in the hands of Mr. Heffelfinger's three sons — F. Peavey Heffelfinger, Executive Vice President; George W. P. Heffelfinger, Vice President; and, Totton P. Heffelfinger, President of Van Dusen Harrington Co.

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HAS BEEN
VERY FAVORABLE"*



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OUR MEN
LIKE THEM"*



"HALF THE TIME TO OPEN,
COMPARED TO OTHER BARRICADES"*



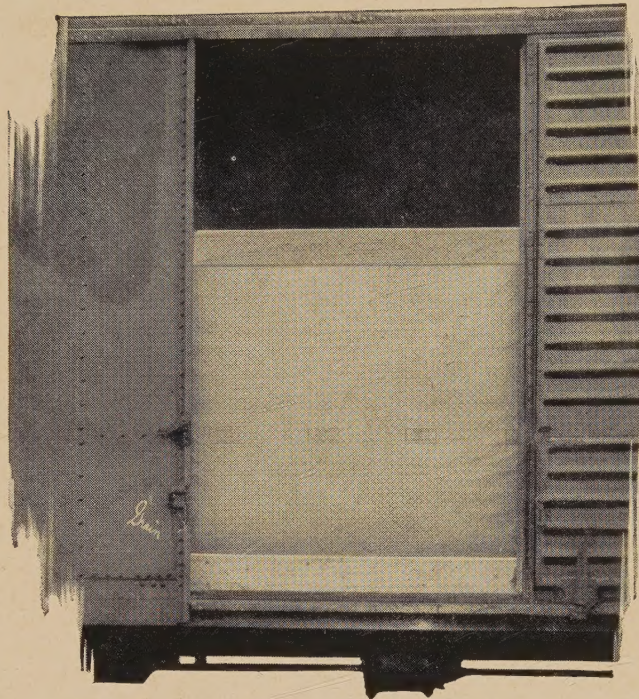
"SIGNODE GRAIN DOORS
ARE A STEP FORWARD"*



"NO HEAVY DOORS
TO THROW IN
AND OUT
OF A CAR"*



"SIGNODE
GRAIN DOORS
ARE TOPS"*



New 6 years ago Proved today!

*Name on request

Over 500,000 already used

Grain Elevator Superintendents tell us UNLOADING TIME IS REDUCED when car doors are coopered with Signode Grain Doors...HERE IS WHY!

Proper method of opening Signode Grain Door.



1. Cut top strap clean at car door post to start flow of grain.
2. As level of grain recedes, cut remaining straps.
3. When all straps are cut, the Grain Door can be folded back out of the way for completion of unloading.

No heavy barricades to handle
No pry bar necessary
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No dangerous protruding nails
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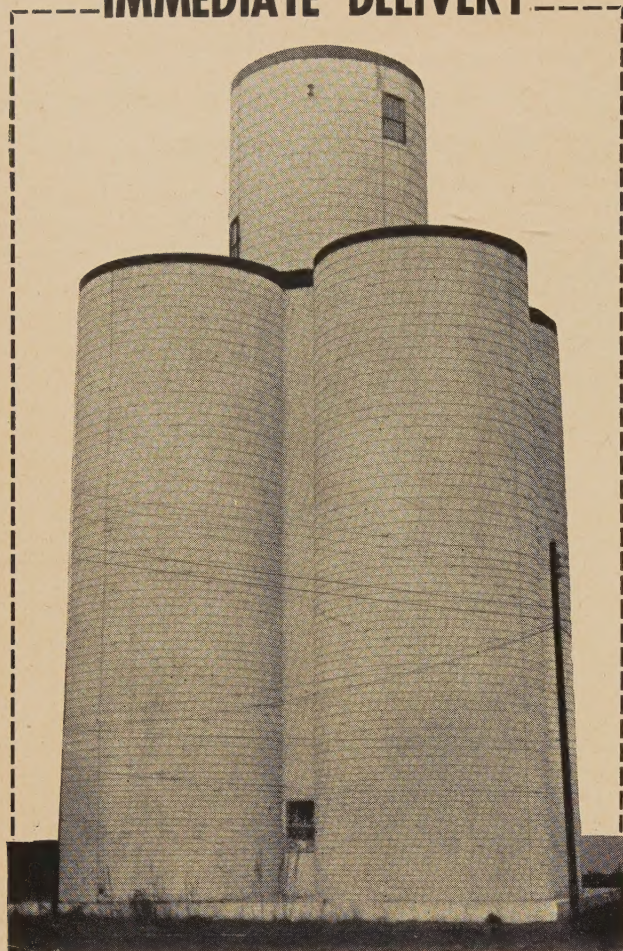
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TWO NEW PRODUCTS FROM SOYBEANS

What appear to be two tremendously important new developments in the synthesis of hormone compounds for possible treatment of rheumatoid arthritis were announced on Sept. 30 by the Glidden Company. These are:

1. Synthesis from the soybean of several new hormone compounds closely related to the already proven Cortisone (Kendall's Compound E.)

2 A new and less costly method of synthesizing the still rare and immensely expensive Cortisone.

Both are the work of Glidden's Soya Products Division's research staff under the direction of Dr. Percy L. Julian.

Of the new compounds created from the soybean, the most immediately promising is one called Compound S, which has never before existed in quantities sufficient for adequate testing. Although the value of Compound S in treating rheumatoid arthritis is as yet unknown, many scientists believe it will have an effect similar to that of Cortisone.

If it does prove beneficial in treatment of this agonizing and crippling disease, the fact that it comes from soybean derivatives — a raw material which is plentiful — means that Compound S will be easier to make than Cortisone, more abundant and ultimately less expensive.

Dr. Julian's new method of synthesizing Cortisone is less costly than present methods because it eliminates the need for using one rare and expensive chemical heretofore essential in this enormously complicated operation. In addition, the new method makes possible the synthesis of still other new and promising compounds.

Chemically, the new Compound S and the other new compounds are known as "companions" of Cortisone in the adrenal cortex of the human body. Because of this, it is believed they will play a significant part either independently or in association with Cortisone in treatment of rheumatoid arthritis. The total chemical formula for Compound S, for example, differs from that of Cortisone by only one oxygen atom.

"ZIPPER"

Belt Conveyor-Elevators

Materials — completely enclosed in tubular belt — are carried gently and cleanly *without spillage, breakage or contamination* — the new, modern way to move bulk materials *quickly and economically*. "Zipper" opens wide for fast loading and complete discharge. No material can collect to spoil or become infested.

**HANDLE
DRY BULK
MATERIALS
— IN ANY
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SAFELY**

Handles up to 840 cu. ft. per hour at belt speeds up to 200 feet a minute. Equipped throughout with SealMaster Ball Bearings and Guide Rollers.
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Tellevel—Bin Level	SealMaster Ball Bearings
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ON THE SAFETY FRONT

Conducted By
WALTER TEPPEN, SOGES Safety Director

RESPONSIBILITY

The responsibility of the superintendent is to see that accident prevention is carefully instilled into the minds of the employees.

The employee also has a decided responsibility in seeing to his own safety and that of his fellow worker. If the superintendent and the workers co-operate fully in safety rules a definite reduction will be shown in accidents.

1. Investigate each accident.
2. Study its cause.
3. Develop methods of preventing future accidents of a similar nature.
4. Keep a careful, accurate record of all accidents that occur.

FIRE PREVENTION

Fire prevention means the saving of life, suffering, loss of property, also money.

All employees should be instructed as to the location of fire extinguishers, or other fire-fighting equipment, exits, also what should be done immediately a fire is located. Delay in reporting small fires may be the cause of a serious loss of life and property, and possibly the loss of jobs for many employees.

We list some preventives:

1. Keep your plant clean and free of oily rags laying around on floors. Get rid of any piles of debris in corners.
2. When electric wires are strung do not hang any live wires on nails or metal hooks or allow to lay on oil soaked floors.
3. Limit smoking to certain designated buildings only.
4. Do not pile materials in front of exits or obstruct the passage to any fire extinguisher as these must be available with the least effort and loss of time to extinguish any small fire.

Some local Fire Departments will detail men to put on demonstrations of the use of various types of fire extinguishers, at your individual plants. They will instruct the men in the correct manner of the use

and the kind of extinguisher to be used for the different types of fire, such as Gasoline, Dust, Wood, etc.

NATIONAL SAFETY CONGRESS NEARS

Talks by important business leaders in some of America's largest companies will highlight the program of this year's National Safety Congress and Exposition, to be held in Chicago, Oct. 24-28.

Nearly 12,000 safety-minded persons from all corners of the United States and from Canada and other parts of the world will meet in Chicago for five jam-packed days at the 37th annual convention of the National Safety Council.

They will hear such outstanding businessmen as Gustav Metzner, president of the New York Central System; James Tanham, vice president for industrial and public relations of the Texas Co. and chairman of the board of directors of the National Safety Council; James E. Trainer, vice-president of Firestone Tire and Rubber Co., and Earl E. Moore, vice-president for industrial relations of Carnegie-Illinois Steel Corp.

The Congress also will be ad-

NEW LOW PRICED PORTABLE (ELECTRIC) BAG CLOSER..

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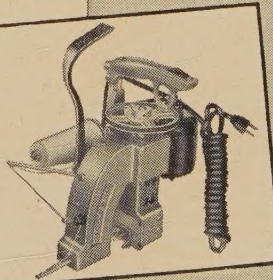
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- Capacity: 200 bags per hour with ease.
- Completely portable—weighs only 10½ lbs.
- Requires no plant space or installation—merely plug into any light outlet.
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Save your plant money in time, labor and equipment.

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dressed by such nationally known figures as Dr. Andrew C. Ivy, vice president of the University of Illinois medical schools, who will discuss alcoholism in industry, and Maj. Gen. Philip B. Fleming, chairman of the U. S. Maritime Commission, who will talk on maintaining safety on the high seas.

A feature of the Congress will be a labor-management safety symposium on what can be done by labor organizations and industry to reduce off-the-job accidents. Labor's viewpoint will be presented by James L. McDevitt, president of the Pennsylvania Federation of Labor, A. F. of L., and Harry Read, executive assistant to the secretary-treasurer, Congress of Industrial Organizations.

DUST EXPLOSION PREVENTION EQUIPMENT

In the forthcoming revised edition of the Dust Explosions Code book (National Fire Codes Vol. II, Prevention of Dust Explosions) it is proposed to include a free listing of manufacturers of devices and equipment mentioned in the volume specifically for the prevention and control of dust explosion hazards.

Fire extinguishing equipment will not be included, but manufacturers of such items as explosion venting windows, static grounding equipment, and magnetic separators will be listed.

Any manufacturer wishing to be included in this list is requested to write at once to NFPA, 60 Battery-march St., Boston 10, Mass., Attention of C. S. Morgan, Advertising Manager, describing the products to be mentioned.

Plants and People

BUILDING CARGILL SOYBEAN PLANT

Chemical Plants Division of Blaw-Knox Construction Company has begun construction of a large soybean processing plant for Cargill, Inc.

The project will give Cargill one of the largest soybean solvent extraction processing plants in this country. The new plant will be located on the bank of the Calumet River in Chicago, adjacent to the grain company's large storage elevators.

The "turnkey" award to Blaw-Knox covers the design and construction of buildings, carloading equipment, yard storage and all process facilities including meal grinding and sifting. Included in the process equipment are a basket extractor, Lewis flaking mills, two vapor desolventizers, two pressure toasters and two deodorizers — the last four items representing exclusive designs of the contractor.

Completion is expected in 1950. Cargill's location will permit water shipments of some of the product.

MORE TERMINAL STORAGE AT SUPERIOR

Farmers Union Grain Terminal Assn. will build 5,500,000 bus. additional grain storage space at Superior, Wis., it was recently announced. Contract was let to the McKenzie, Hauge, Simmons Co.

Work was ordered started immediately following purchase of the 1,300,000-bu. Spencer-Kellogg elevator at Superior by the Grain Terminal Assn. for approximately \$1,000,000.

The 5,500,000 bus. of extra storage space will be ready to receive grain by next July, M. W. Thatcher, general manager of the regional grain co-op., declares. This space, along with two elevators now owned by the co-op at Superior, will give co-op elevators in the Northwest about 11,000,000 bus. of grain storage space at the head of the Great Lakes.

ADDITIONAL STORAGE FOR PILLSBURY

Pillsbury Mills Inc., will add space for half a million bushels of grain to its elevator at Lima, Ohio, Clyde H. Hendrix, president of Pillsbury's feed and soy division says. This addition to Pillsbury's formula feed mixing plant is expected to be ready for use December 1.

"Our company's expanding operations and increased volume in the feed and grain business in Ohio and adjoining states has made this new

The year that got away—



LONG AGO, he'd planned the year, the day, the hour of his retirement.

But now, a year beyond that date, his desk is still open . . . the weekday trout still in the brook.

A lot of years are getting away from a lot of people . . . because they don't have a plan which helps them save money *regularly*.

But there *are* people who are making the most of the years, by investment in United States Savings Bonds.

It's an easy, automatic way of insuring a financial future, thanks to two simple, *automatic* plans:

1. The Payroll Savings Plan, at the firm where you are employed. You get a bond just as often as you like.

2. If not on a payroll, join the Bond-A-Month Plan at your bank.

Don't let another year—another moment—escape you. Sign up today.

*Automatic saving is sure saving—
U.S. Savings Bonds*



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construction necessary," said Mr. Hendrix. "It will mean further economy to Pillsbury feed dealers and their feeder customers through increased use of grains produced on Ohio farms."

The new elevator will be built of concrete and contain a drier. It will include 16 main bins.

"This will enable us to buy more local grain," Edmund P. Pillsbury, vice president in charge of grain operations, said. "Because of our increased storage space when the crop moves we will be in a better position to receive and handle grain of all kinds."

"It will be possible for us to accept wet grains for drying and therefore our modern truck dump facilities can be put to full use," he added.

The elevator will be built by Jones-Hettelsater Construction Company, Kansas City, Mo. It will be concrete, with a large drier and have 16 main bins.

HAILE RETIRES FROM CENTENNIAL

A. J. Haile has retired as superintendent of the grain division of Centennial Flouring Mills Co., Spokane, Wash. Succeeding him is J. W. Holt, former assistant superintendent.

Mr. Haile, who is 70 yrs. old, has headed Centennial's grain division since World War I. He came here in 1900 from Missouri, took up a homestead tract, and became warehouse manager for the Cunningham district of Centennial.

Mr. Haile is generally credited with introducing Baart wheat, as a spring wheat, to the Pacific Northwest region.

In 1916 he was transferred to Spokane as Centennial's traveling representative, and 2 yrs. later was named to head the grain division. He headed the Pacific Northwest Grain Dealers Assn. for two consecutive terms before the war, and has been president of the Spokane Transportation Club.

NEW STALEY SOYBEAN PLANT

Construction of a new soybean oil extraction plant is to be started in Decatur, Ill., very shortly by A. E. Staley Mfg. Co. The building is to be completed next July.

The construction contract, awarded to H. K. Ferguson Company of Cleveland, Ohio, also calls for an addition to the preparation building, where soybeans are made ready to go through the oil extraction process, and expansion of underground storage for hexane, which is used to wash the oil out of the flaked beans.

Contract had previously been awarded to Blaw-Knox Company for

engineering work on the new building and for supplying the principal machinery. Contract for installation of machinery has not yet been awarded. The entire project will, it is estimated, cost more than the \$2,500,000 spent by the company on its first soybean oil extraction plant completed 4 yrs. ago.

The new plant, which will have a rated daily capacity of 800 tons of soybeans, will be adjacent to the first plant, which has a rated capacity of 500 tons.

Operation of the company's expeller plant will be continued for

as long as possible, according to A. E. Staley, Jr., president, but "we don't think it will be very long."

JOHN H. IRWIN DIES

One of the pioneer lakehead grain men, John H. Irwin, passed away at McKellar Hospital, Fort William, Ont. on Aug. 19, aged 63 yrs. Born in Port Arthur in 1886, Mr. Irwin very early chose a career in grain.

In April, 1909 he helped to stake the site of the Western Terminal Elevator, Westfort, saw it built, and had been in charge of it ever since.

Mr. Irwin was a member of the

COMPLETE PROTECTION

AG and Tetrafume are sure, fast kill for all forms of insects, both hard and soft shell. Safe—leaves no telltale taste, color or odor in foodstuffs.

AG Mill Spray is ideal for grain bins, machinery, around the plant. Safe to spray directly on flour or food. Fireproof.

Tetrafume is a non-inflammable liquid, which forms a heavy, non-explosive gas. This gas slowly settles throughout the bin or car, giving complete penetration.

Tetrafume Exclusive 4-Way Protection . . .

- (1) Kills weevils and other insects.
- (2) Removes musty or ground odors.
- (3) Lowers temperature, cuts heat damage.
- (4) Retards damage from high moisture content.

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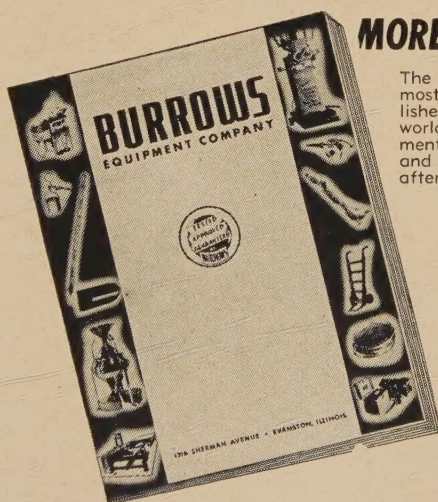
Explains how to get complete grain protection with AG and Tetrafume. Don't wait. Write today.

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The big, new Burrows Catalog is not **ONLY** the most comprehensive volume of its kind ever published . . . it not **ONLY** makes available the world's most complete source of supply for equipment of all kinds for Grain Elevators, Feed Plants and Seed Houses . . . it **ALSO** brings you page after page of

HELPFUL INFORMATION

Such as:

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- Grain insects and their control.
- Increasing the service of chain drives.
- Directions for installing elevator belts.
- Calculating speed of pulleys, sheaves and gears.
- Grain grading and testing specifications.
- How to grade grain.
- And many other worth-knowing facts.

We shall be happy to send you a copy

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ROBERTSON Explosion Ventilators

WILL

Remove the more explosive fine dust from the leg by continuous gravity action

WILL

Release pent-up gases and flames in case of an explosion

WILL

Minimize the possibility of a secondary explosion by continuously venting gases

ROBERTSON Ventilation Engineers

WILL

Inspect your elevator and recommend proper sizes and number of ventilators to secure maximum protection at minimum expense.

Write Now for Details

H. H. ROBERTSON CO.

Farmers Bank Building
Pittsburgh, Pa.

Fort William Hydro Commission for 11 yrs. from 1920 to 1931. He was chairman of the commission for 5 yrs.

He was also a member of the Board of Education for five years, from 1915 to 1920.

He was active, too, in the municipal affairs of Neebing township, and was reeve of the municipality during 1937 and 1938.

An active member of the Society of Grain Elevator Superintendents he helped greatly in the organization and work of the local chapter.

He is survived by a widow, one son and a daughter. Surviving also are two brothers, one of whom — L. C. Irwin — is well-known to SOGES members, as superintendent of the Searle Grain Company's elevator at Fort Williams.

KANSAS DINNER

The Kansas City SOGES chapter is going to Hutchinson, Kans., on Oct. 11 and give a dinner for the elevator superintendents of Wichita, Salina, Hutchinson and surrounding territory. It is hoped that a new chapter may be formed in this area.

TRAVIS DIES IN MINNEAPOLIS

William Travis, Supt., Elevator M. Farmers Union Grain Terminal Assn., Minneapolis, had a stroke on July 27, was taken to hospital, but one month later, Aug. 27 he passed away. — Frank E. (Slim) Carlson.

OLSEN IS CONSULTANT

Oscar W. Olsen, retired from the Globe Elev. Div., F. H. Peavey Co., Duluth, Minn., refuses to enjoy the peace and security of retirement. He writes GRAIN that he is starting work as a Grain Elevator Consultant with headquarters at 528-41st Ave. E., Duluth. His services are available to conduct surveys from basement to outside walls and roof; inspection and weighing problems; helping local superintendents in personnel and other matters.

NEW SOGES MEMBERS

- 839 A. W. Lippert, Norris Grain Co., Chicago.
- 840 N. E. Bartlett, Boston Woven Hose & Rubber Co., Chicago.
- 841 Ben R. Linerman, Arco Bag Co., Inc., Chicago.
- 842 Raymond M. Gerstenberg, Gerstenberg & Co., Chicago.
- 843 Joseph M. Meehan, F. H. Peavey & Co., Minneapolis, Minn.
- 844 John Enroth, F. H. Peavey & Co., Minneapolis, Minn.
- 845 Clyde Thorkelson, F. H. Peavey & Co., Minneapolis, Minn.
- 846 N. S. Van Deventer, Van Brush Mfg. Co., Kansas City, Mo.

Renewal

- 821 Robert Sayre, Irondale Elev., Illinois Grain Terminal Co., Chicago, Ill.

OUT-OF-TOWN VISITORS

Frank E. (Slim) Carlson, Underwriters Grain Assn., Duluth, Minn.

E. P. Stimmel, Gruendler Crusher & Pulverizer Co., St. Louis, Mo.

COMING EVENTS FOR CHICAGO CHAPTER

Sat., Oct. 29—Danville, Ill., Lauhoff Grain Co.

Tues., Nov. 15—Kankakee, Ill., Borden Co. Soy Bean Plant.

*Sat.-Sun., Nov. 26-27—Grand Beach (Mich.) Lodge — sports outing.

Sat., Dec. 10 — Associates' Night, Morrison Hotel, Chicago.

1950

*Sat., Jan. 21—Ladies' Night Dinner Dance.

Fri., Feb. 10—Joint Pre-convention meeting and Milwaukee trip.

Tues., Mar. 28—Post-convention reporting meeting

Tues., April 18—Hammond, Ind., Farm Bureau Milling Co., and Screw Conveyor Corporation.

*Tues., May 16 — Argo, Ill. Corn Products Refining Company.

*Tues., June 6th — Annual meeting (golf tournament).

*Sat.-Sun., June 24-25 — Grand Beach (Mich.) Lodge outing.

*Ladies invited to participate in these activities.

SOGES CHAPTERS AND DATES

1st TUESDAY—Minnesota SOGES Chapter. Ernest O. Ohman, Osborne-McMillan Elevator Co., Minneapolis, President; Robert Ranney, Ralston-Purina Co., Minneapolis, Vice-President; James Auld, Hales & Hunter Co., St. Louis Park, Secretary.

2nd TUESDAY — Omaha-Council Bluffs SOGES Chapter. John T. Goetzinger, Rosenbaum Bros., Omaha, President; W. S. Pool, Nebraska-Iowa Elevator, Omaha, Secretary.

2nd FRIDAY — Central States SOGES Chapter. M. M. Darling, The Glidden Co., Indianapolis, President; N. R. Adkins, Ralston Purina Co., Lafayette, Secretary.

3rd TUESDAY — Kansas City SOGES Chapter. Ralph Yantzi, Wolcott-Lincoln Grain Co., Kansas City, Kan., President; Robert T. Congrove, Standard Milling Co., Kansas City, Kan., Secretary.

3rd TUESDAY — Chicago SOGES Chapter. Lincoln Scott, Corn Products Refining Co., Chicago, President; Harry Hanson, Glidden Co., Chicago, Vice-President; Dale E. Wilson, Northwestern Malt & Grain Co., Chicago, Secretary.

3rd THURSDAY—Buffalo SOGES Chapter. Cornelius Halsted, General Mills, Inc., Buffalo, President; James Burns, Pillsbury Mills, Inc., Buffalo, Secretary.

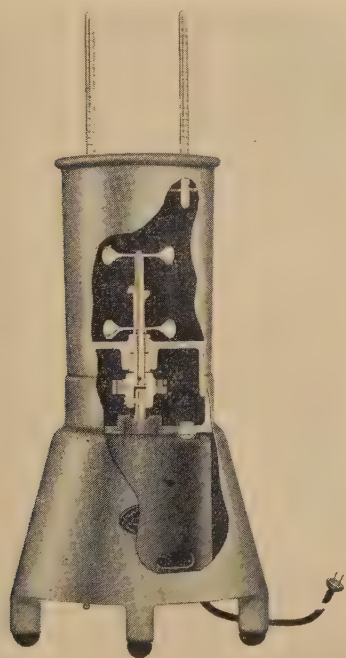
Service and Equipment

AUTOCLEAN DUST FILTERS

A handsome brochure has been issued on their Autoclean Dust Filters by The Day Company, Minneapolis, Minn. It's well illustrated with blueprints and black-and-white drawings showing not only the design but the operating features of these filters. The text is admirably brief, just sufficient to explain fully without too much elaboration. It will be useful for a reference work and those interested in dust control are advised to write for a copy. Ask for Bulletin 491.

MICHIGAN STATE MOISTURE METER TO BE MARKETING

The C. H. Baldwin Company of Lansing, Mich., has been granted an



New Moisture Content Determiner

exclusive license by Michigan State College to use its new quick moisture determining method in the new Master Moisture Meter which the Baldwin Company is placing on the market.

After years of research, the Michigan State College Department of Farm Crops recently perfected this new method which is based on the use of Wet and Dry Bulb Thermometers used in connection with harmless chemicals and agitation. The new Master Moisture Meter which employs this method is said to be

particularly useful for making quick moisture content determinations of Grain, Hay, Beans, Flour, and any other dry material.

S. T. Dexter, Prof. of Farm Crops, M. S. C., states: "Considering the speed of operation, accuracy, convenience, range of moisture content covered, applicability to many materials, freedom from operational difficulties and expense of maintenance, the method appears to be unique and having wide application."

Master Moisture Meter will be sold as a complete outfit which includes the meter itself — a heavy duty unit containing an electric motor, material receptacle, agitator vanes and wet and dry bulb thermometers — together with determination charts and a liberal supply of chemicals required.

"BIN-FLO" AERATING UNITS

The Bin-Dicator Company, Detroit, Mich., has issued two bulletins giving complete information, specifications, and prices on their new Bin-Flo Aerator Units. These units provide a simple means of injecting small volumes of low-pressure air into pulverized materials, which tend to pack and do not flow readily from bins, hoppers, and chutes.

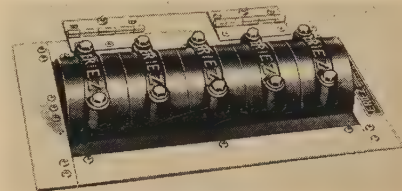
Pulverized materials, in an aerated

condition, will flow freely from bins or through chutes. When these materials are retained in a bin for any length of time and allowed to settle, the entrained air leaves the material. The loss of entrained air will frequently cause material to refuse to flow.

The Bin-Flo unit is a small plate which is readily located at points where flow is restricted. Low-pressure air is injected into the material through a special fabric diffuser, causing the material to flow freely.

ERIEZ ADDS STRENGTH TO MAGNETS

The redesign of the complete line of Eriez permanent non-electric Standard and Jumbo plate magnets



has resulted, it is claimed, in a 50% increase in magnetic strength and a 30% decrease in weight. Previous to this design change, tests conducted by outside engineering firms established the old Standard and Jumbo magnets as two of the strongest permanent magnetic separators available. Now, with this increase in magnetic power, it is obvious that tremendously increased magnetic protection is afforded. The lighter weight and



IT'S BEST FOR
GREATER CAPACITY

Bigger Fill—Less Spill—Perfect Pick-up and Discharge. The HIGH LIP picks up a full load and the HIGH ENDS and WIDE BOTTOM retain it. The bucket has the correct design to empty at the right moment. The shape of the bottom conforms to the top, permitting better spacing on belt—no loss-gaps. Its construction means longer life on the job. Note how sturdy "Nu-Hys" are built—welded with wide flanges to insure strength. Let us show you how to achieve highest potential capacity and efficiency without expensive re-building or enlarging of legs. Write for form No. 76—no obligation. Let us analyze your problem.

IN CANADA—Manufactured and sold under license by Sullivan Mill Equipment, Ltd., 327 Davenport Road, Toronto, Ontario



compact construction will enable these magnets to be installed in a minimum amount of space and will



YOUR BEST BUY

Complete elevator legs, heads, boots and elevator legging . . . screw conveyor troughs . . . bins and sheet metal work to specifications.

By skilled craftsmen who know from long years of experience what it takes to make an elevator operate efficiently and economically.

Estimates and advice of trained engineers upon request . . . no obligation on your part.

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Thirty-five Years Of Service To The Grain Industry

make installation exceedingly simple.

The new Jumbo and Standard magnets consist of a series of Alnico castings designed to obtain the greatest external energy possible. The great improvement in these units is the result of efficient design, newly developed Alnico material and new charging techniques. These plate type permanent magnets will remove tramp iron from materials traveling in chutes and spouts or in pneumatic lines. They provide protection for machinery, guard against fires and explosions and eliminate ferrous metal contamination.

Both models are available for installation in metal or wooden chutes, feed tables, hoppers, etc. with or without hinges. Complete data on the new units are available by writing to Eriez Mfg. Co., 1098 E. 12th St., Erie, Pa.

NEW AUTOMATIC SCALE AND PACKER

The Richardson Scale Company, Clifton, N.J. has issued a 4-page bulletin (No. 2549) describing its new Automatic Scale and Packer for mill and other feeds.

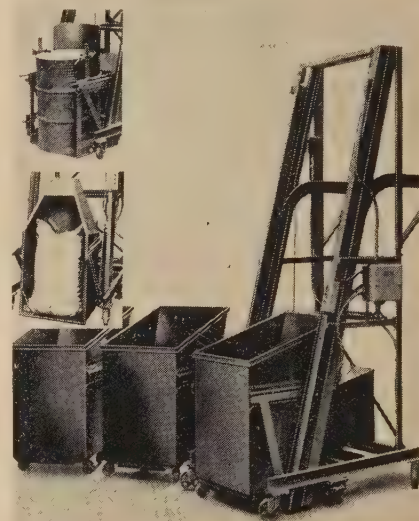
The packer is an all-steel pneumatic unit, with a continuously running steel auger. Feed is extruded from the auger and packed against compressed air, thereby insuring a

bag that is evenly filled all the way down. This design eliminates the need for use of brake bands.

It is claimed that, under normal conditions, one operator can weigh, pack, and sew 240 bags of bran or 300 bags of shorts per hour with the new machine. Completely automatic operation permits this high speed to be maintained comfortably.

DUMPER HAS MANY USES

New versatility has been designed into the Cesco Dumper, a portable elevator which lifts, up-ends and



A Versatile Portable Elevator

dumps 750-lb. loads at a rate of as many as 100 loads per hr. This multi-purpose equipment is adjustable to handle bags, drums, barrels and boxes. It is made in standard dumping heights of 5, 6, 7, 8, 9 and 12 feet; other models range in dumping heights up to 20 feet.

According to the manufacturer, the Cesco Dumper saves time, increases production and prevents accidents. It is equipped with all safety features such as slack cable, safety switch, automatic stops at top and bottom, 3-button control switch and solenoid operated brake on the 1/2 H P motor. The structural steel frame is electrically welded. It rolls from place to place on swivel casters, is equipped with two floor locks, and is made by Colson Equipment & Supply Co., Los Angeles, Calif.

SPROUT-WALDRON ISSUES EQUIPMENT BULLETIN

A new and attractive two-color bulletin (No. 45B) provides convenient reference for the complete line of Sprout-Waldron equipment as supplied to the grain processing and allied industries.

S-W manufacturing and engineering facilities, hammermills, attrition

MAKE YOUR RESERVATION

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FEBRUARY 28 - MARCH 4, 1950

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Port of New Orleans, No. 2 Canal Street, New Orleans, La.

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mills, pellet mills, mixers, roller mills, pneumatic systems, cutters, crushers, feeders, as well as a wide line of supplementary equipment are adequately illustrated. It is available upon request to Sprout, Waldron & Co., Inc., 45 Sherman St., Muncy, Pa.

INNIS SPEIDEN CONFERENCE

Thirty-five sales representatives from various cities attended a sales meeting in Niagara Falls, N. Y., on Oct. 3 and 4 at the Isco Chemical Division of Innis, Speiden & Co., New York.

Feature of the meeting, was a complete tour of the plant arranged by C. H. Berle, plant manager, with the co-operation of department heads who explained in detail each process and operation.

Dr. E. T. Ladd, Isco director of research, explained some of the scientific techniques behind the manufacture of Isco products. A new development in the storage and handling of liquid chlorine was demonstrated as representatives learned that Isco now is producing considerable quantities of the product.

Of great interest to all was the insecticide division where the company produces large quantities of Larvacide, the chlorpicrin fumigant used for killing granary insects, rodents and other vermin, and in soil fumigation for the control of nematodes and soil-borne diseases.

BELT CONVEYOR DATA

Engineering Data Book — ID-481 describing Continental Belt Conveyors is just off the press. This 64-page book is well illustrated and includes engineering and application data along with dimensions and list prices.

Materials handling costs are being given more study today than any time in history. Consequently, this work on belt conveyors should be of considerable assistance to engineers, superintendents and purchasing agents in grain or other industrial and processing plants. Copies are available from the Industrial Division (Dept. P), Continental Gin Company, Birmingham 2, Ala.

Bertoy Now With Nott

Announcement is made by W. S. Nott Co., Minneapolis, of the recent appointment of Lee Bertoy as assistant sales manager of the firm. Mr. Bertoy has a wide acquaintanceship in grain and grain processing circles,

particularly in the Upper Midwest. For the past 10 years he acted as Northwest representative for the Independent Rubber Co., Chicago. Be-



Lee Bertoy

yond that he has a splendid background, specializing in the field of mechanical power transmission and industrial rubber products. It is felt that he is well fitted for the responsible position he has assumed with Nott.

The Mail Bag

PAPER GRAIN DOORS

Dear Editor: Here are some facts and figures on paper grain doors. The statements made by some of the SOGES members are not in agreement with my thoughts, in fact, I know they are wrong from my own personal experiences with paper doors.

First, I handled some 100 cars of wheat at Pan-Tex which had paper doors in them, with no leaks, no doors (car doors) that could not be opened wide enough to let samplers get in for sampling purposes, and, at the present time, I am unloading grain at Blimp Base in Hitchcock, Texas.

Although I am just getting started, we have 12 cars with paper doors, and they had no leaks, no cars that a sampler could not get into. If the operators of grain elevators would use their snips on the doors where bands are exposed and clip close to the door posts on cars, there would be nothing sticking out or hanging from the box cars to catch a man, whether he is a switchman or elevator worker.

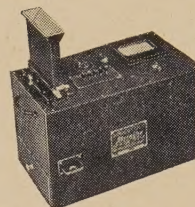
On the Signode paper doors, all anyone has to do is use an axe, knock off the plank at the top, split the door in the middle to release the load, use the axe to cut bands down the door post, and everything is in the clear. There is no way to injure anyone. I can open a car that is equipped with a paper door as fast, or faster, than one fastened by any other method.

I had no kicks from switchmen, car-men or anyone at Pan-Tex about bands or paper hanging from the cars; nor have I had any complaints here at Hitchcock from anyone. — Arthur C. Benson, LaMarque, Texas.

...speed

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The Seedburo equipment shown here conforms to the official, and Seedburo's, high standards of accuracy, precision construction and dependability. Check your grain testing, grading and sampling equipment today.



Steinlite Moisture Tester

Most widely used electric moisture tester in the grain industry. A complete test can be run in *one minute*. Accurate for all practical purposes on moisture contents up to 35%. Sold on 10-day FREE

TRIAL basis. Price (factory) **\$330.00**

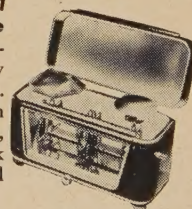
Seedburo No. 34 Boerner Sampler or Mixer. Assures a representative, thoroughly mixed sample of reduced size. Standard equipment in practically all grain inspection offices. Price, **\$100.00 F.O.B. Chicago.**



Seedburo No. 40 Boerner weight-per-bushel scale. Made to specifications of U.S.D.A. Accurate, sturdily made. Price, **\$140.00 F.O.B. Chicago.**



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Seedburo No. 22-S Trier. 63" Government special trier. Double brass tube, wooden handle. 10 openings, heavy bronze point, with double partitions. Price, **\$23.50.**

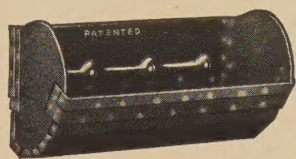
All prices subject to change without notice.

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dead
Who never turned around and said,
"Not bad!"



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GREATER CAPACITY**

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THE BARLEY BIN

BARLEY IN ILLINOIS

Several years ago spring barley was a popular crop in northern Illinois. It has taken a couple of pretty hard knocks in the past 15 yrs. The drought years of 1934 and 1936 decreased the acreage of spring barley in northern Illinois and the bad scab years of 1942 and 1943 combined with some other factors have brought about a tremendous decrease in spring barley acreage since 1943.

Spring barley is now regaining some of the popularity in northern Illinois and this I think is rightly so. North-eastern Illinois can produce good malting barley if it is handled properly.

In 1949 we had a 16% increase in the acreage devoted to spring barley in Illinois and I think that we will see another increase in 1950; particularly so if we have wheat and corn acreage allotments which we certainly will if the weather continues to favor the production of these crops.

Farmers are looking for cash crops to replace some of their corn and soybean acreage. New varieties (such as Moore developed by Wisconsin) which stand up and are resistant to

some of the barley diseases make barley growing more interesting.

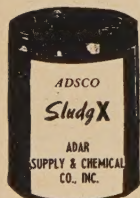
However, spring barley is still susceptible to scab and if we are not careful we will some day find ourselves in the same situation we were in both 1942 and 1943 — with barley so scabby the maltsters do not want it and the hogs will not eat it.

If we are going to devote more of our northern Illinois land to malting barley, let us produce and handle that barley so that it will be malting barley. In the first place, use a variety that is acceptable to the maltsters as Oderbrucker, Wisconsin 38, or Moore. Clean and treat the seed and plant it early as it likes cool weather particularly at the time the heads are filling and becoming mature.

We need to guard against scab. Since scab in barley is caused by the same disease that causes Gibberella in corn this means that barley should not follow corn unless the cornstalks have been plowed under completely. Good quality malting barley must be dry when harvested.—*From an address by Asst. Prof. W. O. Scott, University of Illinois, at the recent Barley Field Day, Woodstock, Ill.*

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MORE STORAGE FOR CARGILL

The former Rutland Railroad grain elevator at Ogdensburg, N. Y., has been leased by Cargill Grain Corporation, Minneapolis. The elevator which has been out of use for several years, holds 500,000 bus. of grain.

THE FRONT COVER

Something of a novelty for GRAIN is the cover this month. Instead of the usual grain handling or processing picture, the spirit of Hallowe'en is portrayed. The corn shocks in the background and the universal appeal of the Hallowe'en festivities on Oct. 31 gave us the excuse. The original scene appeared on *Gas News* published by The Peoples Gas Light and Coke Company, Chicago and we are indebted to that paper and its able editor, Charles J. Morse, for its reproduction here.

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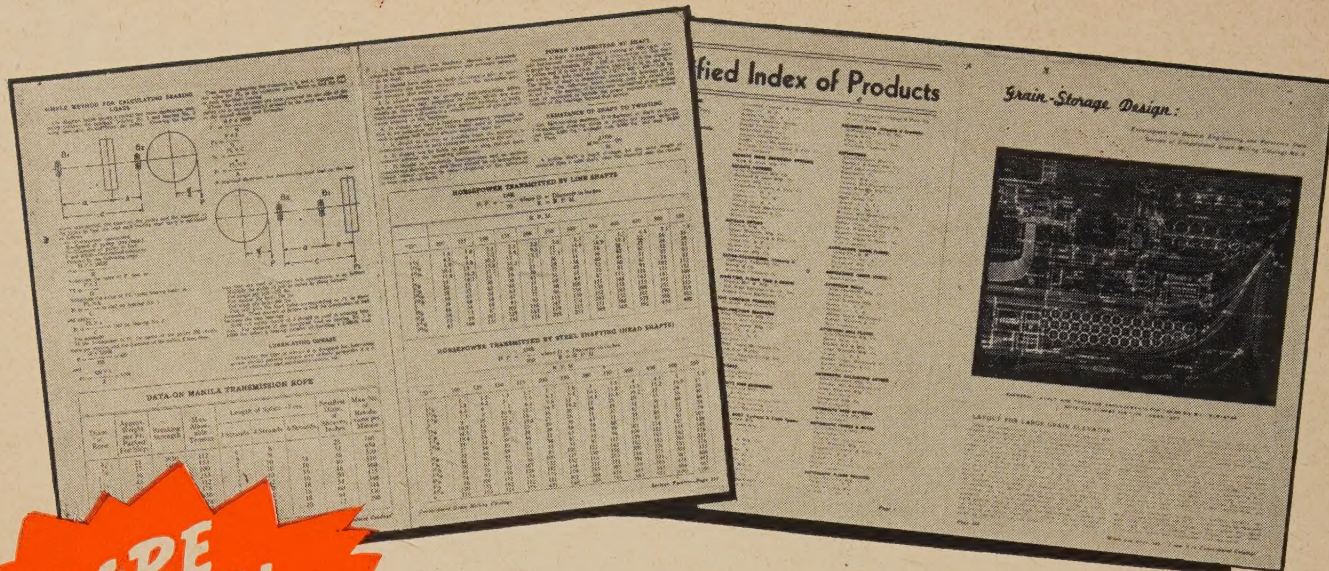
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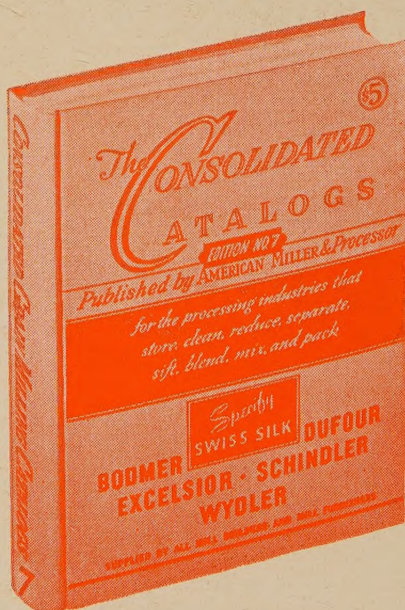
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CONSOLIDATED CATALOGS No. 7

ENGINEERING DATA

Now it's ready—the new, bigger edition of CONSOLIDATED CATALOGS providing engineering and reference data on every phase of grain and allied storage and processing. Months of compilation and editing have gone into making this new edition even more helpful than before—and thousands of earlier editions in daily use attest to the high value placed on CONSOLIDATED CATALOGS by the men who operate the nation's elevators and mills.

Operating information in the new CONSOLIDATED CATALOGS covers the field from receipt of raw materials down through grading, storage, processing and disposition of finished products. CONSOLIDATED CATALOGS is a **must** reference work for the man concerned with creating maximum efficiency in his plant.



INDEX TO EQUIPMENT and SUPPLIES

An important part of successful plant operation depends on a thorough knowledge of the equipment and supplies that make such operation possible. Approximately half of the 626 pages in Edition No. 7 are devoted to such information. Leading manufacturers and distributors have used these pages to show their complete lines and to give detail on their services—and the editors of CONSOLIDATED CATALOGS have co-operated with advertisers by a comprehensive system of cross-indexing. CONSOLIDATED CATALOGS' **Classified Index of Products** will tell you immediately the firms that supply the things in which you're interested — and direct you to their informative advertisements.

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